

Oppositional Defiance

by Arya Akhavan (April 2014)

Angles for R.I. = 1.500

55 + 24 girdles = 79 facets

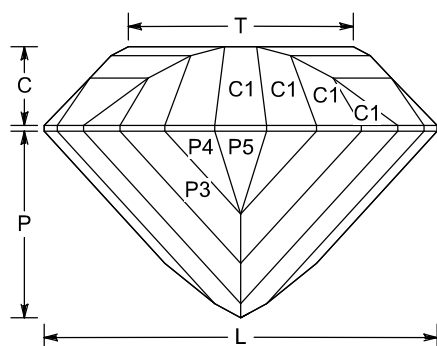
3-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.572 U/W = 0.496

P/W = 0.473 C/W = 0.201

Vol./W³ = 0.249



PREFORM

X1 40.00° 96-04-08-12-16-20-24-28-32-36-40-44-48-52-56-60-64-68-72-76-80-84-88-92 Cut to centerpoint (temporary culet).

G1 90.00° 96-04-08-12-16-20-24-28-32-36-40-44-48-52-56-60-64-68-72-76-80-84-88-92 Set stone size.

PAVILION

P1 43.44° 16-48-80 Establish new girdle level; cut permanent culet.

P2 44.43° 12-20-44-52-76-84 Level girdle.

P3 47.56° 08-24-40-56-72-88 Level girdle.

P4 53.25° 04-28-36-60-68-92 Level girdle.

P5 55.42° 96-32-64 Level girdle.

CROWN

C1 46.11° 96-04-08-12-20-24-28-32-36-40-44-52-56-60-64-68-72-76-84-88-92 Set girdle width (include 16-48-80).

C2 40.32° 16-48-80 Level girdle (overwrite extra C1 facets).

C3 30.97° 16-48-80 Meet C1, C2

C4 17.26° 16-48-80 Meet C1, C3

T 0.00° Table Meet C1, C4

I recently saw a very nice matched pair of round bars by Doug Menadue, and that got me thinking. Could I have a round bar, AND a triangle, AND an opposed bar? Surprisingly enough, the answer was yes (mostly). Works in materials from petalite to CZ (RI = 1.50 - 2.16) with no changes, but I prefer yellow YAG (Ce:YAG). Suggested size = 7-15 mm

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